

SDCS-ER-75-15

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Southern Iran, 7 March 1975

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

DD FORM 1473
1 JAN 73

EDITION OF 1 NOV 65 IS OBSOLETE

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

SDCS Event Report No. 15

Southern Iran, 7 March 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	Origin Time	Latitude	Longitude	m_b	M_s
NORSAR	07:04:36	26.6N	056.7E	5.8	N/A
LASA	07:05:20	34.3N	051.2E	5.8	N/A
PDE	07:04:43	27.5N	056.3E	5.8	6.1
Hagfors Array, Sweden	07:04:16	24 N	057 E	6.2	5.7

Source parameters, other than magnitudes ($m_b = 6.2$, $M_s = 5.4$), were not calculated for the SDCS and Arrays due to limited data.

FN-WV and CPSO were not operational for this event.

Short-period signals associated with this event were recorded at RK-ON, WH2YK, LASA and NORSAR. The signal was not observed at HN-ME due to low magnetic tape input levels. An unresolved time correction at RK-ON precluded determination of a hypocenter.

Long-period signals were recorded at RK-ON, WH2YK and HN-ME. The LPT channel at HN-ME was inoperative. Array long-period data was unrecoverable.

FN-WV, RK-ON, WH2YK, and HN-ME horizontal instruments are oriented radial and transverse to the Nevada Test Site. CPSO is oriented N-S and E-W. LASA, NORSAR, and ALPA beams have been rotated to radial and transverse with respect to the event location.

Scaling factors on plots are millimicrons at 1 Hz (not correct for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

DATA SUMMARY

Sta.	Phase	Arrival Time	Inst.	Per	A/T	Magnitude m_b M_s	Dist*
NAO	EP	07:12:56.5	AB	1.2	388.6	6.01	45.2
HN-ME	LR	07:59:07	LPZ	23.0	275.1	5.52	91.0
WH2YK	EP	07:17:48.5	SPZ	1.2	80.2	5.70	91.6
	LQ	07:58:36	LPT	26.0	Clipped		
	LR	08:07:13	LPZ	20.0	29.3	4.55	
RK-ON	EP	07:30:46.4**	SPZ	1.5	50.0	6.86	97.6
	LR	08:19:35 **	LPZ	22.0	236.4	5.87	
LAO	EP	07:18:47.6	AB	1.3	52.8	6.07	104.5

Average m_b = 6.16 (4 stations)

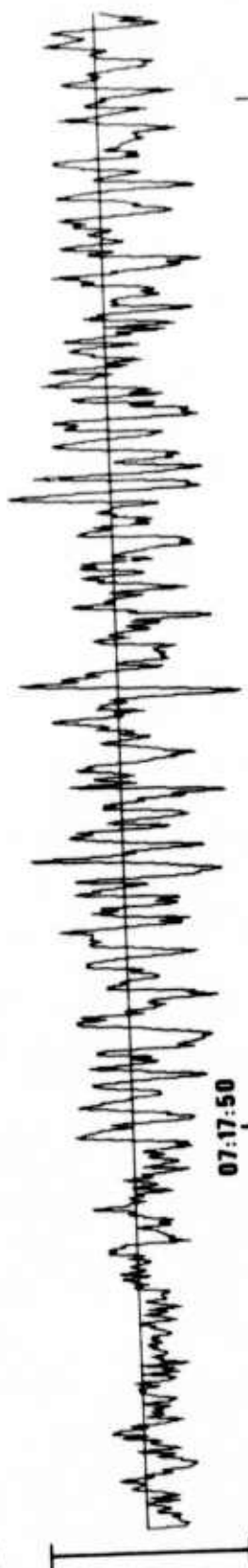
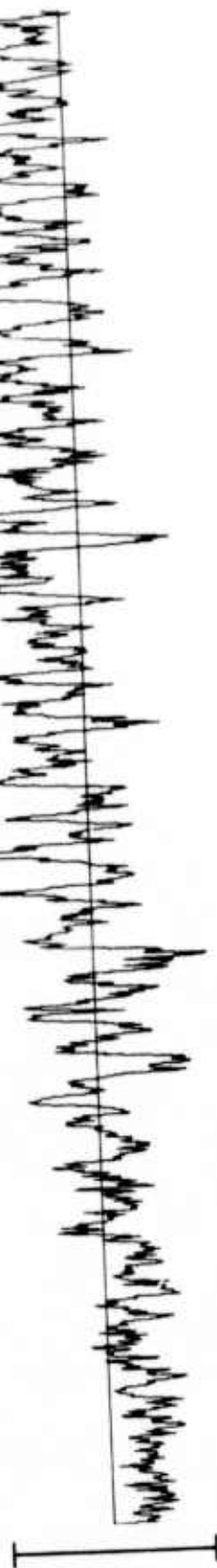
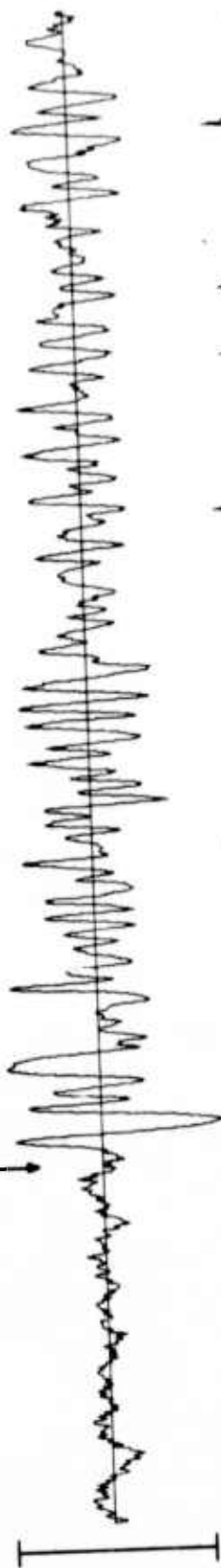
Average M_s = 5.38 (3 stations)

* Distance calculated from PDE location.

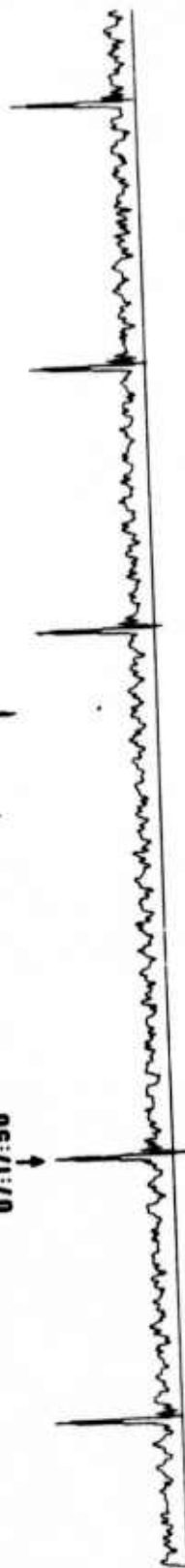
**Time correction approximately -13 minutes.

WH2YK 07 MAR 75

07:17:48.5



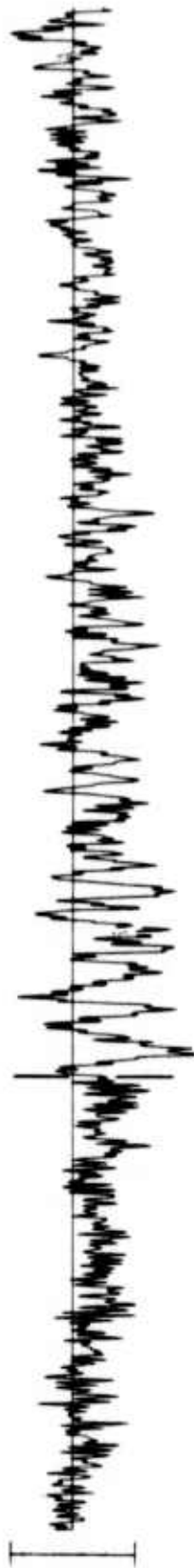
07:17:50



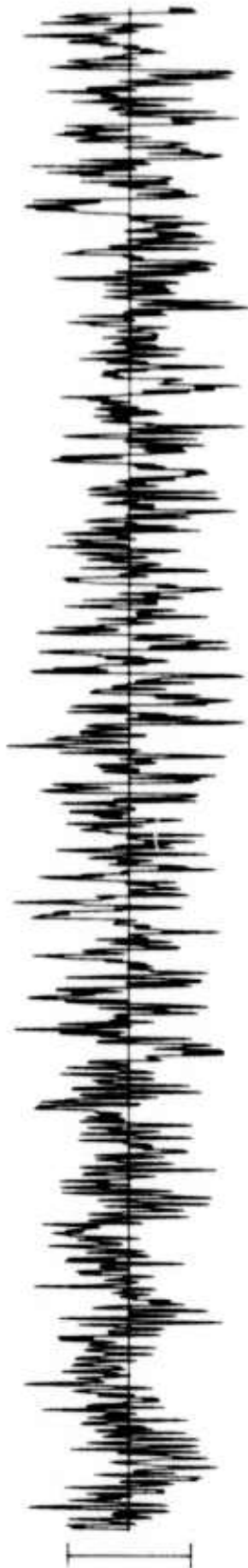
10 sec

RK-ON 7 MAR 75

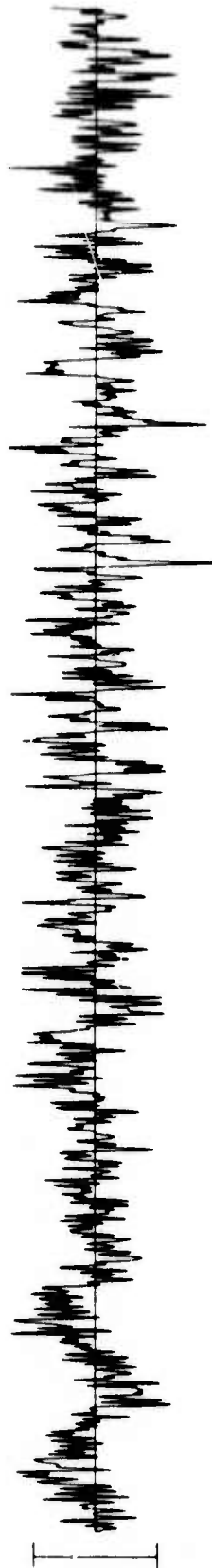
07:30:46.4



**SPZ
19.68 Mμ**

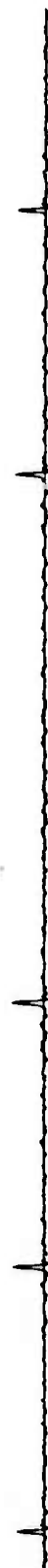


**SPR
8.49 Mμ**



**SPT
21.78 Mμ**

TIME



10 SEC

07:30:50

(-13 MINUTE TIME CORRECTION)

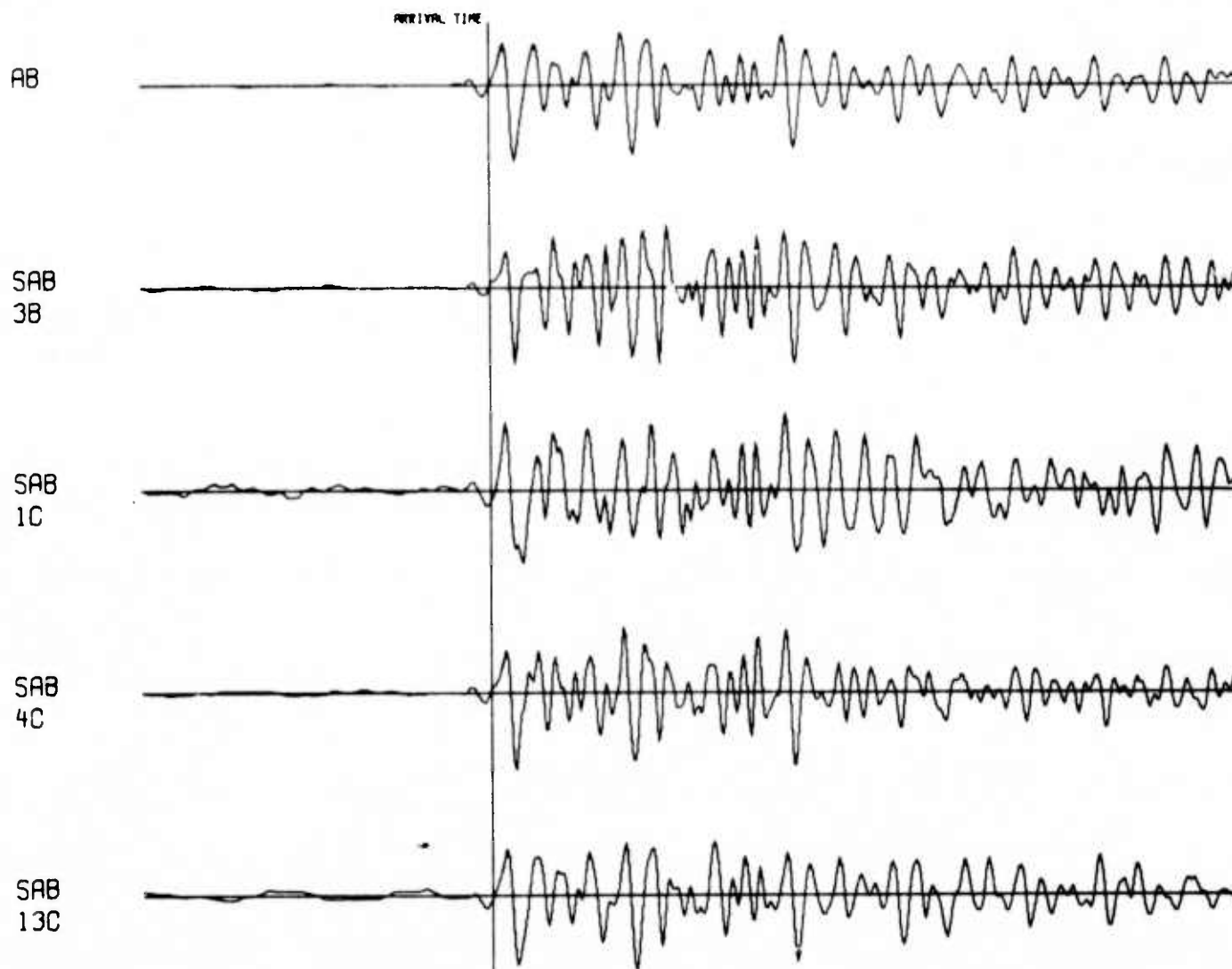
NORSAR EVENT FILE

1975 MAR 7

EPX NO. 91160 ARR. 7.12.58.1 26.6N 56.7E 5.7MB 33KM

DIST = 46.0 AZI = 116.9 AMP = 137.6 PER = 1.2 UMF 2

 = 5 SECONDS



LASA

1 7 MAR 1975
2 7 5 9 31.5N 50.6E 330 C 6.2 348 IRAN
3 7 18 48.2 LAO P 21.9 1.3 25.0 99.5 19.9

EPX 35:60

BP-B 0.6-2.0 HZ

ABN 8.6

07.18.38.2

AB 38

FAB 24

WAB 24

PAB1 25

PAB2 24

PAB3 25

PAB4 24

10 SEC

HN-ME 7 MAR 75

07:59.07

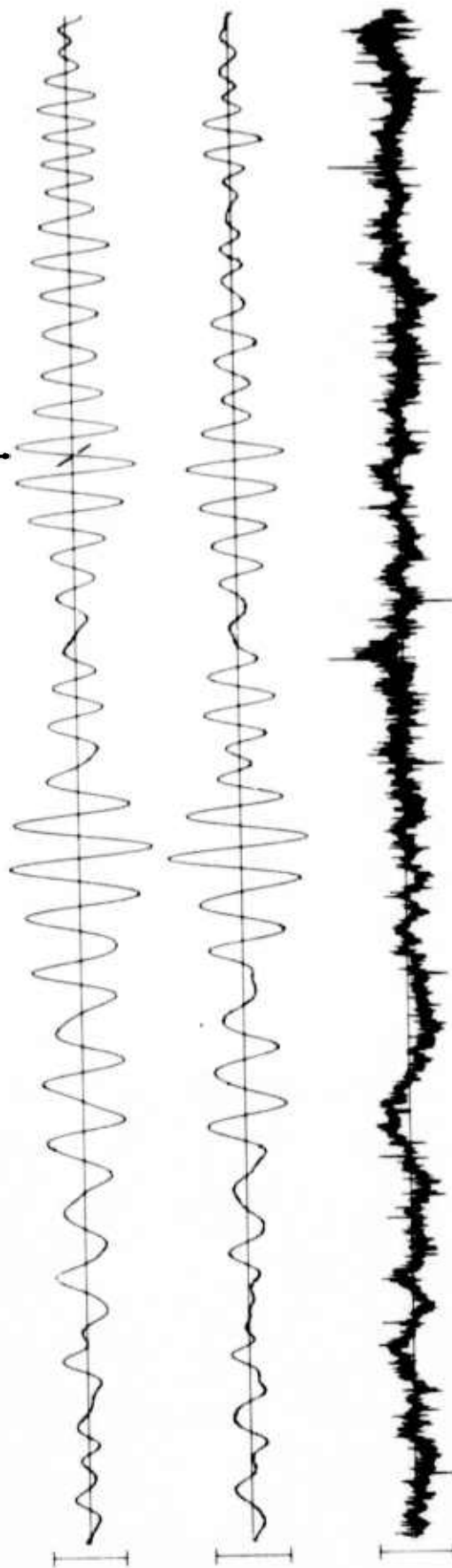
LPT
3053.40 MP

LPT
3405.13 MP

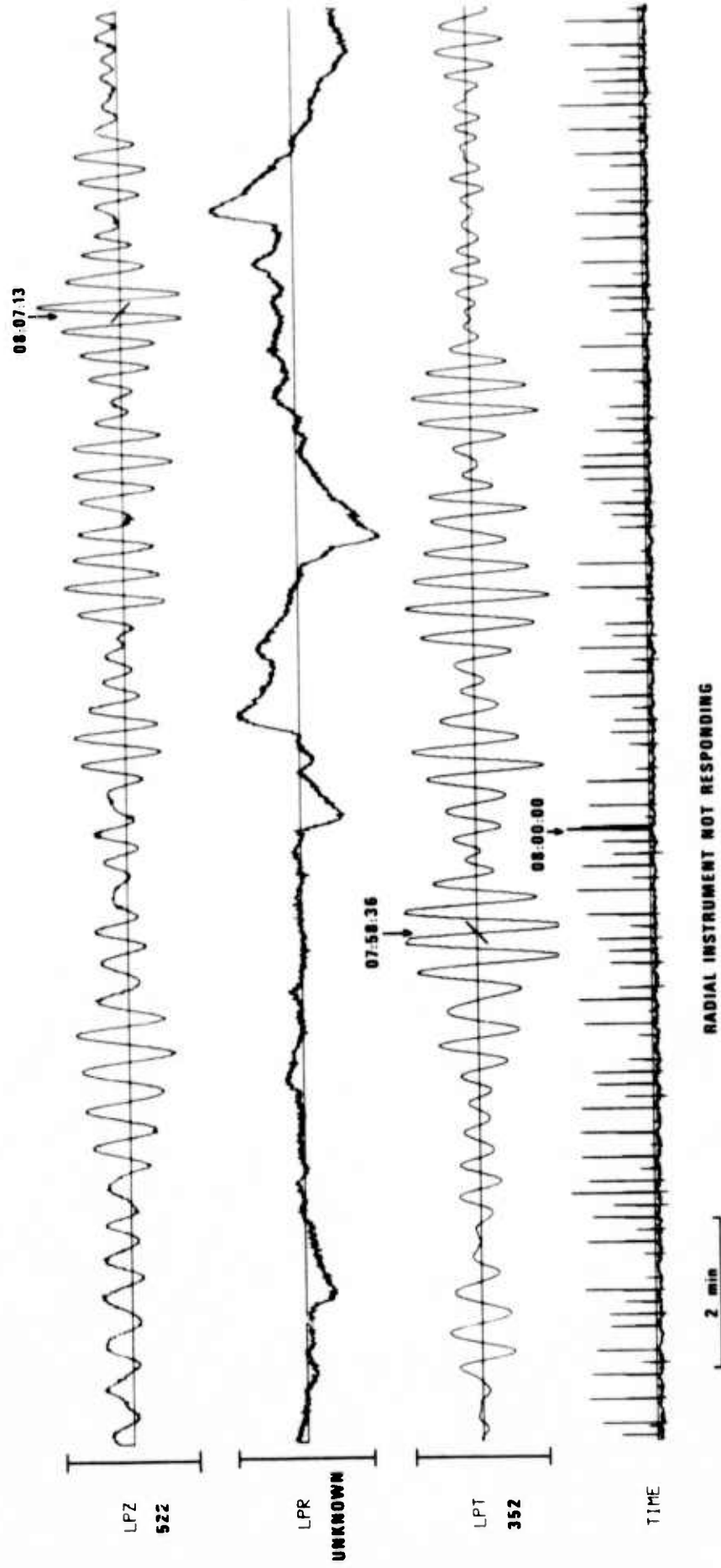
LPT
INOP

TIME

2 MIN



WH2YK 07 MAR 75



RK-ON 7 MAR 75

0019.35

LPZ
3102.00 MP



LPA
4021.02 MP



LPT
5492.52 MP



TIME



0015.00

(-13 MINUTE TIME CORRECTION)